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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/909,088	07/18/2001	Avi Ashkenazi	P1618P2C79	1981
30313 7	7590 08/11/2005		EXAMINER	
KNOBBE, MARTENS, OLSON & BEAR, LLP 2040 MAIN STREET			BASI, NIRMAL SINGH	
IRVINE, CA			ART UNIT PAPER NUMBE	
•			1646	• '
			DATE MAILED: 08/11/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)	
	09/909,088	ASHKENAZI ET AL.	/
Office Action Summary	Examiner	Art Unit	
	Nirmal S. Basi	1646	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address -	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, and If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. t.1.136(a). In no event, however, may a reply within the statutory minimum of thi iod will apply and will expire SIX (6) MO stute, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communicati  BANDONED (35 U.S.C. § 133).	on.
Status			
1) Responsive to communication(s) filed on 11	7 May 2005.		
2a)⊠ This action is <b>FINAL</b> . 2b)□ T	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under the practice under the practice.	·	·	is
Disposition of Claims			
4)	drawn from consideration.		
Application Papers	4		
9) The specification is objected to by the Exam	iner.	•	
10) The drawing(s) filed on is/are: a) a		by the Examiner.	
Applicant may not request that any objection to t			
Replacement drawing sheet(s) including the con	rection is required if the drawing	g(s) is objected to. See 37 CFR 1.121	(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.	•
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore  a) All b) Some * c) None of:  1. Certified copies of the priority docume  2. Certified copies of the priority docume  3. Copies of the certified copies of the p  application from the International Bure  * See the attached detailed Office action for a least open companion.	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No  received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date	Paper No(	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152)	

#### **DETAILED ACTION**

1. Amendment filed 5/17/05 has been entered. Claims 39-47, 49-52 and 55-58 are pending and under examination in this office action. The text of those sections of Title 35, U.S. Code, not included in this action can be found in a prior office action.

### Claim Rejections Maintained

2. The rejection of claims 39-47, 49-52 and 55-58 under 35 U.S.C. 112, first paragraph, as lacking enablement is maintained for reasons of record in the office actions of 11/17/04, 4/28/04 and 12/19/03.

Applicants argue that the MLR assay is a well accepted and useful assay for identifying immunostimulants and is a widely used proliferative assay of T-cell function and can identify agents that can boost the immune system. Dr. Fong points to IL-12 as such a stimulant and states that a PRO polypeptide that stimulates T-cell proliferation with an activity "at least 180% of control" would find practical utility as an immune stimulant. Applicants submit that PRO335, contributes to stimulating the cellular responses (cellular immunity) rather than the humoral responses, of the immune system and therefore, is not directed to any "particular antigen". Applicant further argues the MLR assay is useful for detecting immunostimulatory activities of molecules like PRO335.

Applicants' arguments have been fully considered but have not been found to be persuasive. No "particular antigen" is identified in the specification;

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there is no guidance as to how PRO335 could be used to boost the response to any antigen. Current Protocols in Immunology states on p. 3.12.11 that the MLR "only detects dividing cells instead of measuring true effector T-cell function" and that it is "not clear which T cell function is measured in proliferative assays", and further that "the proliferative response should be used solely as a general indicators of T cell reactivity". Data obtained might variously reflect proliferation of CTL, lymphokine producing T cells, or non-activated bystander cells and will be severely affected by the function of non-T cells. Differences in responsiveness in a proliferative assay in part reflect differences in IL-2 production, according to Current Protocols in Immunology. As has been stated previously, the MLR measures the reactivity of one individual to another and is. as Current Protocols in Immunology states, highly variable. Current Protocols in Immunology in fact describes many variables that must be controlled for. In the instant application, no such controls, such as for maximum response or for the inherent variability of individual responses, are provided. There is no indication of the statistical significance of the results. There are no autologous controls. No correlation is provided to any particular in vivo function; there is no guidance to indicate that PRO335 could be used to any therapeutic effect for the treatment of diseases such as cancer or HIV. The references cited by Applicant fail to provide compensatory guidance. Steinman and Thurner et al. (see previous office action) address the utility of dendritic cells but not of a stimulatory MLR. Gubler see previous office action) describes the identification of the molecule IL-12 but uses the MLR merely to compare activities, not as the basis for describing Art Unit: 1646

a molecule as a therapeutically useful immunostimulant. The subsequent research of Peterson et al. (see previous office action) was clearly required to suggest that the molecule could be used in this fashion. Thus, without further guidance correlating the observed stimulatory activity to a particular, useful property, it would require undue experimentation to use PRO335.

## Claim Rejections - 35 USC § 102

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 52 rejected under 35 U.S.C. 102(b) as being anticipated by Amersham Life Sciences Catalog, 1996.

Amersham Life Sciences Catalog discloses fragments of a single nucleotide (see pages 348-352) that would inherently hybridize, under the claimed conditions, to the nucleic acid encoding the polypeptide of SEQ ID NO:290, absent evidence to the contrary. Therefore the disclosure of the Amersham Life Sciences Catalog meets the limitations of claim 52.

#### NO CLAIM IS ALLOWED.

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nirmal S. Basi whose telephone number is 571-272-0868. The examiner can normally be reached on 9:00 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony C. Caputa can be reached on 571-272-0829. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (tollfree).

Nirmal S. Basi ART Unit 1646

8/8/05